# Don't Let Your Pool Drain Your Wallet

## Learn How to Reduce Your Pool Pump Electricity Use by 70%

**Did you know that the largest energy user in your home is probably your pool pump?**

| | Est. Annual Usage |
|---|---|
| Clothes Washer | 110 kWh |
| Central A/C | 493 kWh |
| Dryer | 587 kWh |
| Television | 620 kWh |
| Refrigerator | 725 kWh |
| Freezer | 898 kWh |
| Water Heater | 2,149 kWh |
| **Pool Filter Pump** | **3,794 kWh** |

Source: 2010 CEC CA Residential Appliance Saturation Survey

By converting to an energy efficient variable speed pool pump you can **reduce the energy usage of your pool pump by 70%** and your **total energy usage by up to 30%!**

## CURRENT POOL SYSTEM VS. NEW POOL SYSTEM

| | Current | New | |
|---|---|---|---|
| **Pump Info** | | | |
| Manufacturer | Pac Fab | Pentair | |
| Model | Challenger | IntelliFlo® VS+SVRS Variable Speed | |
| Type | Single Speed | Variable Speed | |
| | | **Filter Speed** | **Clean Speed** |
| HP/Speed | 2 HP | 1200 RPM | 2400 RPM |
| Watts | 2100 W | 175 W | 930 W |
| Flow | 110 GPM | 58 GPM | 73 GPM |
| Hours Per Day | 6 Hours | 6 Hours | 2 Hours |
| Turns Per Day | | | 1.29 Turns |
| | | | (0.29 Turns Above Target) |
| **Current Monthly Electricity Use** | | **New Monthly Electricity Use** | |
| Pool Pump | 383 kWh | 88 kWh | |
| **Current Electrical Costs** | | **New Electrical Costs** | |
| **Monthly Cost** | **$80.44** | **$18.58** | |
| **Annual Cost** | **$965.79** | **$223.05** | |

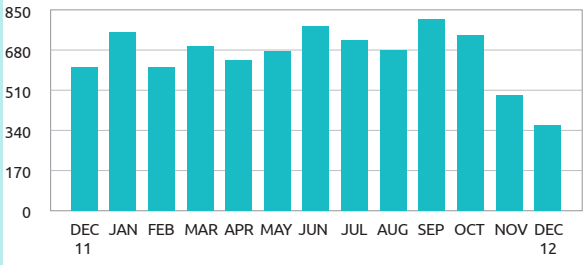
*Energy Audit and Installation completed by Payan Pool Service, Santee, CA*

Bill Prince and Nyla Marson were paying high monthly energy bills, but by replacing their pool pump with a variable speed model, they are able to **save $62/month or $740/year** while improving the water quality of their pool.

*"The new variable speed pump lowered our total electric bill to half of what it used to be, and we didn't change anything else. We are totally thrilled!"*

– Bill Prince & Nyla Marson, Santee Homeowners
North Cuyamaca neighborhood

## ELECTRIC USAGE HISTORY (Total kWh used)




| | Dec 11 | Nov 12 | Dec 12 |
|---|---|---|---|
| Total kWh used | 605 | 483 | 367 |
| Daily Avg. kWh | 20.2 | 16.7 | 11.1 |
| Days in billing cycle | 30 | 29 | 33 |
| **Change in daily average from last month** | | | **-33.5%** |
| **Change in daily average from last year** | | | **-45.0%** |

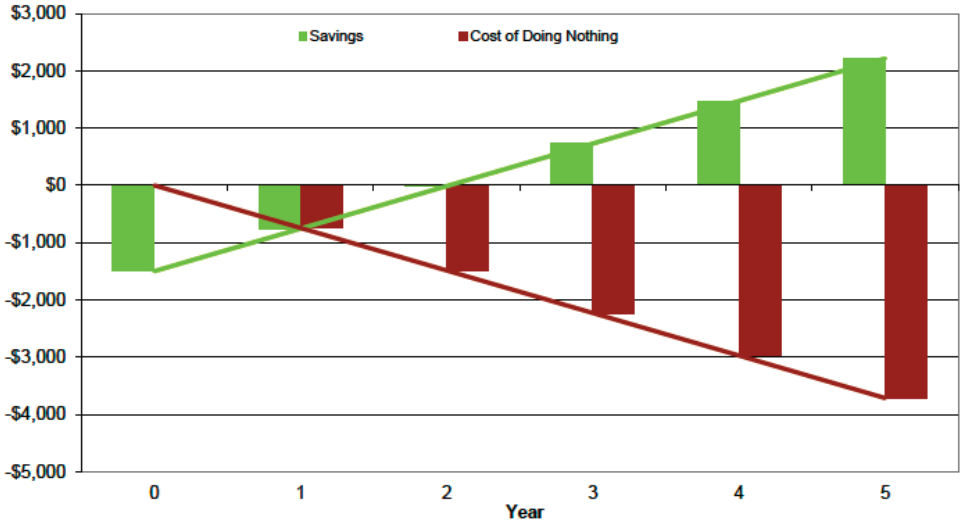
**SANTEE POOL PUMP CASE STUDY**

Nyla Marson and Bill Prince have been enjoying their pool and spa particularly during the hot summer months in Santee, but the high electricity bills take a significant bite into their available discretionary income.

After speaking with a trained and licensed pool service contractor, Nyla and Bill learned that they could upgrade their 2-horsepower single speed pool pump to a variable speed pump that runs a longer total cycle time but at significantly lower power. Their first electricity bill with the new variable speed pump in operation over the full 30 days was 50% lower than that same month in the previous year with no other changes in electricity usage. They also noted that at the lower operating speeds not only is the new pump "super quiet", but the clarity of the water is even better. The new pump's programmable timer has also been set so that it no longer runs at the higher cleaning speed between the peak demand hours of 11:00 a.m. and 6:00 p.m.

- *Total electricity bill reduced by 50% -- $740/year*
- *Pump pays for itself in 2 years*
- *Save > $3600 over the next 5 years, compared to if they didn't upgrade their pool pump*

## RETURN ON INVESTMENT




Nyla Marson and Bill Prince and their contractor took advantage of SDG&E's $200 rebate which resulted in a net installation cost of $1500 -- and with the energy savings the new system provides, it will pay for itself in just 24 months. They justified this initial $1,500 investment when their pool contractor shared with them the chart above which shows that if they didn't do the upgrade they would have to spend more than $3,700.00 in higher electric bills over the next 5 years.

If you currently have a pool with a single speed filter pump, contact a C-53 or C-61 certified pool contractor that can make this upgrade, so that you too can start saving. **You can confirm their Active Contractor's License at www.cslb.ca.gov on the left side "check a License or HIS Registration" tab.**

*The City of Santee and CleanTECH San Diego do not provide endorsements for any companies or their services.*